

sitting side, said filling member including at least three separate grooves each extending over a limited surface area of the filling member on the sitting side;

a cover member encircling the filling member;

B1 an air vent provided in the filling member and extending from adjacent the non-sitting side of the sitting portion towards the sitting side of the sitting portion, one end of said air vent opening toward the sitting side and communicating with said at least three grooves; and

a temperature controlled air producing device for producing temperature controlled air and directing the temperature controlled air into an opposite end of the air vent, with the temperature controlled air being directed through the air vent and into said at least three separate grooves to provide temperature controlled air to a seated individual in contact with the sitting side of the sitting portion.

17. The seat apparatus according to Claim 16, wherein said at least three grooves are located in areas to which high pressures are applied by an individual seated on the sitting portion.

B2 20. The seat apparatus according to Claim 18, wherein said temperature controlled air producing device includes a peltier element communicated with the air vent that is in communication with said at least three grooves of the filling member of the seat cushion.

21. A seat apparatus for directing temperature controlled air to an individual seated on the seat apparatus, comprising:

a seat cushion that includes a filling member, said seat cushion possessing a sitting side adapted to face towards an individual seated on the seat cushion and a non-sitting side;

a seat back that includes a filling member, the seat back possessing a sitting side adapted to face towards an individual seated on the seat back and a non-sitting side;

a plurality of spaced apart grooves each extending over a limited surface area of the filling member of at least one of the seat cushion and the seat back, each of said plurality of spaced apart grooves opening in a direction towards the sitting side of said at least one of the seat cushion and the seat back;

a cover member encircling the filling member of at least one of the seat cushion and the seat back;

an air vent having one end communicated with said plurality of spaced apart grooves such that said plurality of grooves branch from said one end of the air vent;

a fan communicating with an opposite end of the air vent to direct air towards the air vent such that the air is fed into the air vent and is directed by way of said plurality of spaced apart grooves to selected portions of an individual in contact with the sitting side of said at least one of the seat cushion and the seat back; and

an air temperature controlling device positioned between the fan and the air vent to control a temperature of the air directed to the air vent and into said plurality of spaced

B3 apart grooves to provide temperature controlled air to the selected portions of an individual in contact with the sitting side of said at least one of the seat cushion and the seat back.

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B4 22. The seat apparatus according to Claim 21, wherein the plurality of spaced apart grooves includes at least three spaced apart grooves each extending over a limited surface area of the filling member of said seat cushion, said air vent being a single air vent constituting the only air vent in the filling member of the seat cushion so that all air from the fan is fed into the single air vent and is directed into each of said at least three grooves.

23. The seat apparatus according to Claim 21, wherein said plurality of grooves are provided in the filling member of the seat cushion, and including at least one groove extending over a limited surface area of the filling member of the seat back.

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B5 25. The seat apparatus according to Claim 21, wherein the cover member encircles the filling member of the seat cushion, and including another cover member that encircles the filling member of the seat back and a mesh member provided between the another cover member and the filling member of the seat back.

BS 26. A seat apparatus for directing temperature controlled air to an individual seated on the seat apparatus, comprising:

a seat cushion possessing a sitting side adapted to face towards a seated individual and a non-sitting side;

a seat back possessing a sitting side adapted to face towards a seated individual and a non-sitting side;

at least one of the seat cushion and the seat back including a filling member;

a plurality of spaced apart grooves each extending over a limited surface area of the filling member and opening in a direction towards the sitting side of the at least one of the seat cushion and the seat back, each of said plurality of spaced apart grooves extending to selected portions of the filling member;

a cover member encircling the filling member;

an air vent having one end communicated with the plurality of spaced apart grooves such said plurality of spaced apart grooves branch from said one end of the air vent;

a peltier element communicating with an opposite end of the air vent to control a temperature of air fed to the air vent and directed by way of said plurality of grooves to said selected portions of the filling member to provide temperature controlled air to an individual seated on said at least one of the seat cushion and the seat back.

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27. The seat apparatus according to Claim 26, wherein the air vent in the filling member is a single air vent constituting the only air vent in the filling member, each of the plurality of spaced apart grooves communicating with the single air vent.

28. The seat apparatus according to Claim 27, wherein each of the grooves has an end located at the one end of the single air vent.

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34. The seat apparatus according to Claim 26, wherein each of the plurality of grooves includes side walls and a bottom wall.

*Kindly add the following new Claims 35-37.*

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35. The seat apparatus according to Claim 16, wherein said air vent is a single air vent constituting the only air vent in the filling member so that all temperature controlled air produced by the temperature controlled air producing device is directed through the single air vent.

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36. The seat apparatus according to Claim 21, wherein said plurality of grooves are located in areas to which high pressures are applied by an individual seated on the sitting portion.

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37. The seat apparatus according to Claim 26, wherein said plurality of grooves are located in areas to which high pressures are applied by an individual seated on the sitting portion.

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